



OPERATING PERMIT Issued Pursuant to Tennessee Air Quality Act

Date Issued: December 16, 2013

Permit Number:
068059

Date Expires: November 30, 2023

Issued To:
164th AW, Tennessee Air National Guard

Installation Address:
4593 Swinnea Road
Memphis

Installation Description:
Source 01: two (2) gas-fired boilers, each rated at 5.88 MMBtu/hr
Source 02: three (3) fuel storage tanks

Emission Source Reference No.
79-0084

The holder of this permit shall comply with the conditions contained in this permit as well as all applicable provisions of the Tennessee Air Pollution Control Regulations.

CONDITIONS:

1. The application that was utilized in the preparation of this permit is dated November 20, 2013 and is signed by John M. Cooke, Environmental Manager for the permitted facility. If this person terminates employment or is reassigned different duties and is no longer the responsible person to represent and bind the facility in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Technical Secretary of the change. Said notification shall be in writing and submitted within thirty (30) days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the facility in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the facility until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

(conditions continued on next page)


TECHNICAL SECRETARY

No Authority is Granted by this Permit to Operate, Construct, or Maintain any Installation in Violation of any Law, Statute, Code, Ordinance, Rule, or Regulation of the State of Tennessee or any of its Political Subdivisions.

NON-TRANSFERABLE

POST AT INSTALLATION ADDRESS

Section I: The following conditions shall apply to the entire facility, unless otherwise noted.

2. The issuance of this permit does not exempt the permittee from any requirements of the Environmental Protection Agency (EPA) regarding the operation of this air contaminant source.
3. Visible emissions from all sources covered by this permit shall not exhibit greater than twenty percent (20%) opacity, except for one (1) six-minute period in any one-hour period, and for no more than four (4) six-minute periods in any 24-hour period. Visible emissions from this source shall be determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average). TAPCR 1200-03-05-.03(6) and 1200-03-05-.01(1)
4. Excess emissions shall be addressed as specified in Chapter 1200-03-20 of the Tennessee Air Pollution Control Regulations.
5. The permittee shall apply for renewal of this permit not less than sixty (60) days prior to the permit expiration date, pursuant to paragraph 1200-03-09-.02(3).
6. The issuance of this operating permit supersedes any previously issued air quality permit(s) for this facility, including those issued by the Shelby County Health Department.

Section II: Source-specific Conditions

79-0084-01: two (2) gas-fired boilers, each rated at 5.88 MMBtu/hr

7. This permit is issued for the operation of two (2) boilers, as listed in the table below:

Unit I.D. #	Installation Date	Manufacturer & Serial No.	Heat Input Capacity	Primary Fuel	Backup Fuel
Boiler-1	January 30, 2009	International #95262	5.88 MMBtu/hr	natural gas	#2 fuel oil
Boiler-2	January 30, 2009	Teledyne Laars #95264	5.88 MMBtu/hr	natural gas	#2 fuel oil

8. Particulate matter (TSP), sulfur dioxide (SO₂), nitrogen oxides (NO_x), carbon monoxide (CO), and volatile organic compounds (VOC) emitted from this source shall not exceed the following limits:

Pollutant	Emission Rate (lb/hr)	Emission Rate (ton/yr)	Applicable Rule
TSP	0.088	0.39	1200-03-06-.01(7)
SO ₂	0.007	0.03	1200-03-14-.01(3)
NO _x	1.153	5.05	1200-03-06-.03(2)
CO	0.968	4.24	1200-03-06-.03(2)
VOC	0.063	0.28	1200-03-06-.03(2)

9. Only natural gas and #2 fuel oil shall be used as fuel(s) for this source.
10. The sulfur content of the fuel oil shall not exceed 0.5 percent by weight.

11. The owner/operator shall retain certifications from the fuel supplier of the actual sulfur content (by weight) for each shipment of fuel oil. These records shall be maintained at the source location and kept available for inspection by the Technical Secretary or his representative. These records must be retained for a period of not less than two (2) years.
12. The maximum total usage of natural gas for this source (both boilers combined) shall not exceed 124.8 million standard cubic feet (MMscf) per calendar year.
13. A log of the monthly natural gas usage, in a form that readily shows compliance with Condition 12, must be maintained at the source location and kept available for inspection by the Technical Secretary or his representative. This log must be retained for a period of not less than two (2) years.
14. All data, including all required calculations, must be entered into the required log(s) no later than thirty (30) days from the end of the month for which the data is required.

79-0084-02: three (3) fuel storage tanks

15. This permit is issued for the operation of two (2) Jet A aviation jet fuel storage tanks and one (1) gasoline storage tank, as listed in the table below:

Tank I.D. #	Material Stored	Tank Capacity (gallons)
T-5001	100% Jet A aviation jet fuel	210,000
T-5002	100% Jet A aviation jet fuel	210,000
POL-2974	100% gasoline	12,000

16. The materials stored in the Jet A aviation jet fuel tanks shall have a maximum vapor pressure of no more than 0.5 psia.
17. Total maximum throughput for both Jet A aviation jet fuel storage tanks (combined) shall not exceed 420,000 gallons per month and 5,040,000 gallons per calendar year.
18. Total maximum throughput for the gasoline storage tank shall not exceed 12,000 gallons per month and 144,000 gallons per calendar year.
19. Volatile organic compounds (VOC) emitted from each of the Jet A aviation jet fuel storage tanks shall not exceed 78.1 pounds per month and 0.50 ton per calendar year.
20. Volatile organic compounds (VOC) emitted from the gasoline storage tank shall not exceed 210.0 pounds per month and 1.26 tons per calendar year.
21. Each tank shall be equipped with a fixed roof, an internal floating-type cover, with a continuous closure device between the tank wall and the cover edge.
22. All valves, fittings, hoses, pipes and other parts of the material delivery systems connected to the storage tank(s) shall be maintained in good working order. The owner/operator shall clean up any spills and/or leaks as soon as possible.

23. Monthly records of the type, true vapor pressure, and throughput of all materials stored in the storage tanks shall be maintained at the source location and kept available for inspection by the Technical Secretary or his representative. This log must be retained for a period of not less than two (2) years.
24. The owner/operator shall keep readily accessible records showing the dimensions of each storage tank and an analysis showing the capacity of each storage tank. These records shall be kept for the life of the storage tanks.

(end of conditions)

Emission Summary

Permit Number: 068059

Source Status: New ☒ Modification ☐ Expansion ☐ Relocation ☐ Permit Status: New ☒ Renewal ☐

PSD ☐ NSPS ☐ NESHAPs ☐ Previous Permit Number: Construction _____ Operating Shelby Co.

	Pounds/Hour			Tons/Year				Date of Data	*	Applicable Standard 1200-03-
	Actual	Potential	Allowable	Actual	Potential	Allowable	Net Change			
TSP	0.088	0.088	0.088	0.39	0.39	0.39		11/20/13		06-.01(7)
SO ₂	0.007	0.007	0.007	0.03	0.03	0.03		11/20/13		14-.01(3)
CO	0.968	0.968	0.968	4.24	4.24	4.24		11/20/13		06-.03(2)
VOC				2.04	2.04	2.04		11/20/13		06-.03(2) & 07-.07(2)
NO _x	1.153	1.153	1.153	5.05	5.05	5.05		11/20/13		06-.03(2)

* - Source of data All emissions are from the previous permit (#01061-01P), issued by the Shelby County Health Department.

The total VOC emissions of 2.04 TPY shown above include 0.28 TPY from Source -01 and 1.76 TPY from Source -02.
Emissions of all other pollutants are exclusively from Source -01.

PERMITTING PROGRAM: R. Thompson DATE: 12-16-13